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	APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/829,377		04/22/2004		Takuya Shiraishi	056209.52220C1	7098	
	23911	7,590	08/05/2005		EXAM	INER	
	CROWELL & MORING LLP				SOLIS, ERICK R		
	INTELLECTUAL PROPERTY GROUP						
	P.O. BOX 143				ART UNIT	PAPER NUMBER	
WASHINGTON DC 20044 4200			20044 4300		2747		

DATE MAILED: 08/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			<b>\</b>			
-		Application No.	Applicant(s)			
		10/829,377	SHIRAISHI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Erick R. Solis	3747			
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address			
THE - Extended after aft	HORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r r SIX (6) MONTHS from the mailing date of this communication. or period for reply specified above is less than thirty (30) days, a reply or period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)[🗆	Responsive to communication(s) filed on 22 Ju	<u>uly 2005</u> .				
,	•	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	tion of Claims					
4)🖂	☑ Claim(s) <u>1-4</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
· · _	Claim(s) is/are allowed.					
·	Claim(s) <u>1 and 3</u> is/are rejected.					
·	7)⊠ Claim(s) <u>2 and 4</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.					
•	,,	r election requirement.				
	tion Papers		•			
·-	The specification is objected to by the Examiner.					
10)[]	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
لــا(۱۱	The bath of declaration is objected to by the Ex	danimer. Note the attached Office	e Action of form F 10-132.			
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  Certified copies of the priority document  Certified copies of the priority document  Copies of the certified copies of the priority document  application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	tion No red in this National Stage			
	oss the attached detailed office deticit for a list	C. IIIO CO.IIIIOG COPIOG HOL POCOTO	<del></del> -			
<b>A.</b>	at a					
Attachmei  1) Noti	nt(s) ce of References Cited (PTO-892)	4) 🔲 Interview Summary	v (PTO-413)			
2) 🔲 Noti	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Date			
	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	5)	Patent Application (PTO-152)			

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## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Huang et al (US Patent No. 5085189). See Fig. 4, which shows a spring (61) -biased closed valve (62) for injecting an air/fuel mixture directly into a combustion chamber of an engine. See also col.3, lines 39+. The fuel and air will further mix within the chamber in which the spring loaded valve is located.

## Allowable Subject Matter

3. Claims 2 and 4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

4. Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection.

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#### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick R Solis whose telephone number is (571) 272-4853. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on (571) 272-4856. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-3700.

Erick R Solis Primary Examiner Art Unit 3747